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DISTRIBUTION VARIABLE PHASE SHIFTER

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CORE TERMS: terminal, substrate, phase, continuously, varied, e1-e4, high frequency, constitution, distributed, distribute, variable, strip, input

ENGLISH-ABST:

PURPOSE: To provide a distribution variable phase shifter which can distribute the electric power and then can continuously vary the phase of distributed signals in a simple and highly reliable constitution.

CONSTITUTION: A rotary substrate 1 can relatively turn to a fixed substrate 2 and is provided with input strip lines 7 and 8 to distribute the high frequency signals received through an input terminal A into two groups. Meanwhile the substrate 2 is provided with arc-shaped slot lines 15 and 16 of different radiuses, and the output strip lines 21, 22, 23 and 24 are connected to both ends of lines 15 and 16 respectively. The high frequency signals supplied through the terminal A are distributed to the output terminals E1-E4. When the substrate 1 is turned, the lengths of transmission lines led to the terminals E1-E4 from the

terminal A are continuously varied. Therefore the phase shifted variable is continuously varied. Furthermore the signals of difference phases are taken out of the terminals E1-E4 and at the same time the phase differences can be varied among the signals in accordance with turning of the substrate 1.

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